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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet	1	of	1

Complete if Known	
Application No.	10/679,620
Filing Date	October 3, 2003
First Named Inventor	Stephen J. Reinl
Art Unit	1642
Examiner Name	Not yet assigned
Attorney Docket Number	34150/0008

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document No. Number – Kind Code[2] (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
LAB		US-6,403,371 B1	06/11/2002	Conrad et al.
		US-		
		US-		
		US-		

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] – Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T[6]

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[6]
LAB	A	SHU, Liming, QI, Chen-F., SCHLOM, Jeffrey and KASHMIRI, S.V.S., "Secretion of a Single-Gene-encoded Immunoglobulin from Myeloma Cells": Proc. Nat'l Acad. Sci. USA; Vol. 90, pp. 7995-7999, September 1993	

Examiner Signature		Date Considered	5/11/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	10/679,620
Filing Date	10/3/2003
First Named Inventor	Reinl et al.
Art Unit	1642
Examiner Name	HELMS, Larry Ronald
Attorney Docket Number	34150/0008

Sheet	1	of	8

U.S. PATENT DOCUMENTS

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LMB	A	US-4,683,195	07/28/1987	MULLIS, et al.	
	B	US-4,683,202	07/28/1987	MULLIS	
	C	US-6,417,429	07/09/2002	HEIN, et al.	
	D	US-2003/0172407	09/11/2003	HEIN, et al.	
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Examiner Signature	Lynn Reinl	Date Considered	5/11/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 8

	Complete if Known
Application Number	10/679,620
Filing Date	10/3/2003
First Named Inventor	Reinl et al.
Art Unit	1642
Examiner Name	HELMS, Larry Ronald
Attorney Docket Number	34150/0008

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
LAB	E	ALT, et al., "Selective multiplication of dihydrofolate reductase genes in methotrexate-resistant variants of cultured murine cells", *J Biol. Chem.* (1978) 253:1357-1370	
	F	BARR, "Mammalian subtilisins: the long-sought dibasic processing endoproteases", *Cell* (1991) 66:1-3	
	G	BEAUCAGE, et al., "Deoxynucleoside phosphoramidites—A new class of key intermediates for deoxypolynucleotide synthesis", *Tetrahedron Letts.* (1981) 22:1859-1862	
	H	BENDAHMANE, et al, "The *Rx* Gene from Potato Controls Separate Virus Resistance and Cell Death Responses", *Plant Cell* (1999) 11:781-792	
	I	BENFEY and CHUA, "Regulated Genes in Transgenic Plants", *Science* (1989) 244:174-181	
	J	BENTON, et al., "Screening lambdagt recombinant clones by hybridization to single plaques in situ", *Science* (1977) 196:180-182	
	K	BISARO, et al., "Genetic analysis of tomato golden mosaic virus", *Communications in Molecular Biology: Viral Vectors* (1988) pp. 172-189	
	L	BITTER, et al., "Expression and secretion vectors for yeast", *Methods in Enzymol.* (1987) 153:516-544	
	M	BOSHART, et al., "A very strong enhancer is located upstream of an immediate early gene of human cytomegalovirus", *Cell* (1985) 41:521-530	
	N	CARTER, et al, "Humanization of an Anti-p185^{HER2} Antibody for Human Cancer Therapy", *Proc. Nat. Acad. Sci. USA,* (1992) 89:4285-4289	
	O	COCKETT, et al., "High level expression of tissue inhibitor of metalloproteinases in Chinese hamster ovary cells using glutamine synthetase gene amplification", *Bio/Technology* (1990) 8(7):662-7	
	P	COLBERRE-GARAPIN, et al., "A new dominant hybrid selective marker for higher eukaryotic cells", *J. Mol. Biol.* (1981) 150(1):1-14	
	Q	CROUSE, et al., "Expression and amplification of engineered mouse dihydrofolate reductase minigenes", *Mol. Cell. Biol.* (1983) 3(2):257-66	
	R	CULLEN, et al., "Functional analysis of the transcription control region located within the avian retroviral long terminal repeat", *Mol. Cell. Biol.* (1985) 5(3):438-447	

Examiner Signature	Lynn Bruff	Date Considered	5/11/06

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Sheet 3 of 8

	Complete If Known
Application Number	10/679,620
Filing Date	10/3/2003
First Named Inventor	Reinl et al.
Art Unit	1642
Examiner Name	HELMS, Larry Ronald
Attorney Docket Number	34150/0008

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
LHB	S	DAWSON, et al., "Modifications of the tobacco mosaic virus coat protein gene affecting replication, movement and symptomatology", *Phytopathology* (1988) 78:783-789	
	T	DAWSON, et al., "cDNA Cloning of the Complete Genome of Tobacco Mosaic Virus and Production of Infectious Transcripts", *Proc. Natl. Acad Sci. USA* (1986) 83:1832-1836	
	U	DAYHOFF, et al., "Establishing homologies in protein sequences", *Methods in Enzymol.* (1983) 91:524-45	
	V	DILLON, "Regulating gene expression in gene therapy", *TIBTECH* (1993) 11:167-172	
	W	DODET, "Commercial prospects for gene therapy – a company survey", *TIBTECH* (1993) 11:182-189	
	X	DONSON, et al., "Systemic Expression of a Bacterial Gene by a Tobacco Mosaic Virus-Based Vector", *Proc. Nat. Acad. Sci. USA* (1991) 88:7204-7208	
	Y	DURING, et al., "Synthesis and self-assembly of a functional monclonal antibody in transgenic Nicotiana tabacum", *Plant Molecular Biology* (1990) 15:281-293	
	Z	DZAU, et al., "Gene therapy for cardiovascular disease", *TIBTECH* (1993) 11:205-210	
	AA	EGEL-MITANI, et al., "A novel aspartyl protease allowing KEX2-independent MF alpha propheromone processing in yeast", *Yeast* (1990) 6(2):127-137	
	BB	EVAN, et al., "Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product", *Mol. Cell. Biol.* (1985) 5:3610-3616	
	CC	FELGNER, et al., "Lipofection: A Highly Efficient, Lipid-Mediated DNA-Transfection Procedure", *Proc. Natl. Acad. Sci. USA* (1987) 84:7413-7417	
	DD	FENDLY, et al., "Characterization of murine monoclonal antibodies reactive to either the human epidermal growth factor receptor or HER2/neu gene product", *Cancer Res.*, (1990) 50:1550-1558	
	EE	FINDEIS, et al., Targeted delivery of DNA for gene therapy via receptors", *TIBTECH* (1993) 11:202-205	
	FF	FIREK, et al., "Endoplasmic reticulum targeting of active modified beta-glucuronidase (GUS) in transgenic tobacco plants", *Transgenic Res.* (1994) 3(5):326-331	

Examiner Signature	Lynn Bowman	Date Considered	5/11/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 8

Complete if Known	
Application Number	10/679,620
Filing Date	10/3/2003
First Named Inventor	Reinl et al.
Art Unit	1642
Examiner Name	HELMS, Larry Ronald
Attorney Docket Number	34150/0008

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
LHB	GG	FLYNN, et al., "Peptide-binding specificity of the molecular chaperone BiP", *Nature* (1991) 353(6346):726-30	
	HH	FOECKING, et al., "Powerful and versatile enhancer-promoter unit for mammalian expression vectors", *Gene* (1986) 45(1):101-5	
	II	FRENCH, et al., "Bacterial gene inserted in an engineered RNA virus - efficient expression in monocotyledonous plant-cells", *Science* (1986) 231:1294-1297	
	JJ	FRIEDMAN, "Gene therapy – a new kind of medicine", *TIBTECH* (1993) 11:156159	
	KK	FRIEDMAN and JINNAH, "Gene therapy for disorders of the nervous system", *TIBTECH* (1993) 11:192-197	
	LL	GOSSEN and BUJARD, "Tight control of gene expression in mammalian cells by tetracycline-responsive promoters", *Proc. Natl. Acad. Sci. USA* (1992) 89(12):5547-5551	
	MM	GRUNSTEIN, et al., "Colony hybridization: a method for the isolation of cloned DNAs that contain a specific gene", *Proc. Natl. Acad. Sci. USA.* (1975) 72(10):3961-3965	
	NN	GUBLER, et al., "A simple and very efficient method for generating cDNA libraries", *Gene* (1983) 25(2-3):263-269	
	OO	HAMILTON, et al., "Stable transfer of intact high molecular weight DNA into plant chromosomes", *Proc. Natl. Acad. Sci. USA.* (1996) 93(18) :9975-9	
	PP	HAMLIN and MA, "The mammalian dihydrofolate reductase locus", *Biochem. et Biophys. Acta*, (1990) 1087(2):107-25	
	QQ	HARLOW, et al., *Antibodies: A Laboratory Manual*, (1988) Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY:138-243, Table of Contents: iii-ix	
	RR	HOOYKAAS and SCHILPEROORT, "Agrobacterium and plant genetic engineering", *Plant Mol. Biol.* (1992) 19(1):15-38	
	SS	HORSCH, et al., "A simple and general method for transferring genes into plants", *Science* (1985) 227:1229–1231	

Examiner Signature	Lynn Burkhart	Date Considered	5/11/06

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Sheet 5 of 8

Complete if Known	
Application Number	10/679,620
Filing Date	10/3/2003
First Named Inventor	Reinl et al.
Art Unit	1642
Examiner Name	HELMS, Larry Ronald
Attorney Docket Number	34150/0008

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LMB	TT	HUANG, et al., "Glucocorticoid regulation of the Ha-MuSV p21 gene conferred by sequences from mouse mammary tumor virus", *Cell* (1981) 27(2 Pt 1):245-55	
	UU	JANDA, et al., "Induction of an antibody that catalyzes the hydrolysis of an amide bond", *Science*, (1988) 241:1188-1191	
	VV	JANDA, et at., "Catalytic antibodies with lipase activity and R or S substrate specificity", *Science*, (1989) 244:437-440	
	WW	JEFFERSON, et al., "GUS fusions: beta-glucuronidase as a sensitive and versatile gene fusion marker in higher plants", *EMBO J* (1987) 6:3901-3907	
	XX	KNARR, et al., "BiP binding sequences in antibodies", *J Biol Chem.* (1995) 270(46):27589-94	
	YY	KOZAK, "At least six nucleotides preceding the AUG initiator codon enhance translation in mammalian cells", *J. Mol. Biol.* (1987) 196(4):947-950	
	ZZ	KUMAGAI, et al., "Cytoplasmic inhibition of carotenoid biosynthesis with virus-derived RNA", *Proc. Natl. Acad. Sci. USA* (1995) 92(5):1679-1683	
	AAA	KUMAGAI, et al., "Rapid, high-level expression of biologically active alpha-trichosanthin in transfected plants by an RNA viral vector", *Proc. Nat. Acad. Sci. USA* (1993) 90(2):427-430	
	BBB	KURJAN and HERSHKOWITZ, "Structure of a yeast pheromone gene (MF alpha): a putative alpha-factor precursor contains four tandem copies of mature alpha-factor", *Cell* (1982) 30(3):933-934	
	CCC	LEE, et. al., "BiP and immunoglobulin light chain cooperate to control the folding of heavy chain and ensure the fidelity of immunoglobulin assembly", *Mol Biol Cell.* (1999) 10(7):2209-19	
	DDD	LOGAN and SHENK, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection", *Proc. Natl. Acad. Sci. USA* (1984) 81(12):3655-359	
	EEE	LOWY, et al., "Isolation of transforming DNA: cloning the hamster aprt gene", *Cell* (1980) 22(3):817-23	
	FFF	MITANI and CASKEY, "Delivering therapeutic genes – matching approach and application", *TIBTECH* (1993) 11:162-166	

Examiner Signature		Date Considered	5/11/06

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Sheet 6 of 8

Complete if Known	
Application Number	10/679,620
Filing Date	10/3/2003
First Named Inventor	Reinl et al.
Art Unit	1642
Examiner Name	HELMS, Larry Ronald
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LRB	GGG	MORGAN and ANDERSON, "Human gene therapy", *Ann. Rev. Biochem.* (1993) 62:191-217	
	HHH	MULLIGAN, "The basic science of gene therapy", *Science* (1993) 260:926-932	
	III	MULLIGAN and BERG, "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase", *Proc. Natl. Acad. Sci. USA* (1981) 78(4):2072-6	
	JJJ	NABEL and FELGNER, "Direct gene transfer for immunotherapy and immunization", *TIBTECH* (1993) 11:211-215	
	KKK	NEEDHAM-VAN DEVANTER, et al., "Characterization of an adduct between CC-1065 and a defined oligodeoxynucleotide duplex", *Nucleic Acids Res.* (1984) 12:6159-6168	
	LLL	ODELL, et al., "Identification of DNA sequences required for activity of the cauliflower mosaic virus 35S promoter", *Nature* (1985) 313(6005):810-2	
	MMM	O'HARE, et al., "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase", *Proc. Natl. Acad. Sci. USA* (1981) 78(3):1527-31	
	NNN	O'NEILL, et al., "The alpha-amylase genes in Oryza sativa: characterization of cDNA clones and mRNA expression during seed germination", *Mol. Gen. Genet.* (1990) 221(2):235-244	
	OOO	PAGE and SYDENHAM, "High level expression of the humanized monoclonal antibody Campath-1H in Chinese hamster ovary cells", *Biotechnology* (1991) 9(1):64-68	
	PPP	PASZKOWSKI, et al., "Direct gene transfer to plants", *EMBO J.* (1984) 3:2717-2722	
	QQQ	PEARSON, et al., "High-performance anion-exchange chromatography of oligonucleotides", *J. Chrom.* (1983) 255:137-149	
	RRR	PFEFFER and ROTHMAN, "Biosynthetic protein transport and sorting by the endoplasmic reticulum and Golgi", *Ann. Rev. Biochem.* (1987) 56:829-52	
	SSS	PIETRZAK, et al., "Expression in plants of two bacterial antibiotic resistance genes after protoplast transformation with a new plant expression vector", *Nucleic Acid Res.* (1986) 14(14):5857-5868	
	TTT	POLLACK, et al., "Selective chemical catalysis by an antibody", *Science* (1986) 234(4783):1570-1573	

Examiner Signature		Date Considered	5/11/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	7	of	8

Complete if Known	
Application Number	10/679,620
Filing Date	10/3/2003
First Named Inventor	Reinl et al.
Art Unit	1642
Examiner Name	HELMS, Larry Ronald
Attorney Docket Number	34150/0008

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
LNR	UUU	PORTEOUS and DORIN, "How relevant are mouse models for human diseases to somatic gene therapy?", *TIBTECH* (1993) 11:173-181	
	VVV	ROBINSON, "Gene therapy – proceeding from laboratory to clinic", *TIBTECH* (1993) 11:155	
	WWW	SAMBROOK, J. et al., *Molecular Cloning: A Laboratory Manual*, 2nd Ed., (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY	
	XXX	SANTERRE, et al., "Expression of prokaryotic genes for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells", *Gene* (1984) 30:147-156	
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	1	SHIVPRASAD, et al., "Heterologous sequences greatly affect foreign gene expression in tobacco mosaic virus-based vectors", *Virology* (1999) 255(2):312-323	
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	3	SZYBALSKA and SZYBALSKI, "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait", *Proc. Natl. Acad. Sci. USA* (1962) 48:2026-2034	
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	7	TURPEN, et al., "Malarial epitopes expressed on the surface of recombinant tobacco mosaic virus", *BioTechnology* (1995) 13(1):53-57	
	8	VERCH, et al., "Expression and assembly of a full-length monoclonal antibody in plants using a plant virus vector", *J. Immunol. Methods* (1998) 220(1-2):69-75	

Examiner Signature	Lynn Britt	Date Considered	5/11/06

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Sheet 8 of 8

Complete if Known	
Application Number	10/679,620
Filing Date	10/3/2003
First Named Inventor	Reinl et al.
Art Unit	1642
Examiner Name	HELMS, Larry Ronald
Attorney Docket Number	34150/0008

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
LHB	9	VITALE and DENECKE, "The endoplasmic reticulum-gateway of the secretory pathway", *Plant Cell* (1999) 11(4):615-28	
	10	WALLACE, et al., "A set of synthetic oligodeoxyribonucleotide primers for DNA sequencing in the plasmid vector pBR322", *Gene* (1981) 16(1-3):21-26	
	11	WANG, et al., "Universal PCR amplification of mouse immunoglobulin gene variable regions: the design of degenerate primers and an assessment of the effect of DNA polymerase 3' to 5' exonuclease activity", *J. Immunol. Methods* (2000) 233(1-2):167-177	
	12	WIGLER, et al., "Transformation of mammalian cells with an amplifiable dominant-acting gene", *Proc. Natl. Acad. Sci. USA* (1980) 77:3567-70	
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	14	WIVEL, "Regulatory considerations for gene-therapy strategies and products", *TIBTECH* (1993) 11:189-191	
	15	WOLF, et al., "Cloning of cDNA for natural killer cell stimulatory factor, a heterodimeric cytokine with multiple biologic effects on T and natural killer cells", *J. Immunol.* (1991) 146(9):3074-81	
	16	WU and WU, "Delivery systems for gene therapy", *Biotherapy* (1991) 3:87-95	

Examiner Signature		Date Considered	5/11/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known	
Application No.	10/679,620
Filing Date	October 3, 2003
First Named Inventor	Reinl et al.
Art Unit	1642
Examiner Name	HELMS, Larry Ronald
Attorney Docket Number	34150/0008

Sheet	1	of	1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document No. Number – Kind Code[2] (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
LMB	A	US-5,639,947	06-17-1997	Hiatt et al.
	B	US-5,959,177	09-28-1999	Hein et al.
	C	US-6,852,319	02-08-2005	Hein et al.
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Examiner Signature	Lynn Bruell	Date Considered	5/11/06

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